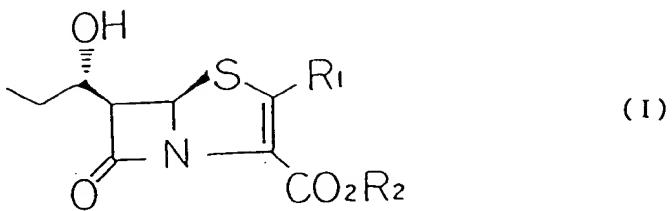


ABSTRACT

A penem derivative represented by the following formula (I):



wherein R<sub>1</sub> represents a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkylthio group, a substituted or unsubstituted alkenylthio group, a substituted or unsubstituted aralkylthio group, a substituted or unsubstituted arylthio group, a substituted or unsubstituted heterocyclic group, a substituted or unsubstituted heterocyclic thio group, a substituted or unsubstituted acylthio group, a mercapto group or a hydrogen atom, and R<sub>2</sub> represents a hydrogen atom or a carboxyl-protecting group; or a pharmacologically acceptable salt thereof.

← The compound (I) exhibits strong antibacterial activities, and especially, shows strong activities against MRSA. It is therefore useful not only as a

general antibacterial agent but also as an antibacterial agent for MRSA against which no general antibacterial agents are recognized to be effective.